ALB 128 RG -Series

Ruggedized 20W / 40W Ku-Band Block Up Converter

ALB128-RG series of Ruggedized BUCs have been developed for operation in extreme environments. Powerful and robust, these BUCs are designed and tested to meet the stringent MIL STD 810F for shock and vibration. The units are light and compact and have built-in redundancy feature. With just a control cable connection between the two units, they can be ready for operation in the redundancy mode.

The BUCs operate over a very wide output frequency range from 13.75GHz to 14.BOGHz. Stringent phase noise specification renders the BUC suitable for use in low, medium and high data rate links. The BUCs are highly linear, so that they can be used close to their rated output power.

The BUCs are designed to meet the EN310489-1 for Radio Spectrum matters, IEC60950 for safety and FCC part 15 class B for EMI/EMC.

The BUC can be controlled and monitored through the PC on an RS232/RS485 Interface and Ethernet.

Features

- Fully MIL STD 810F certified
- World's first rugged BUC design
- Compact with enhanced M&C feature
- Available for wide frequency range of operation 13.75 to 14.BOGHz
- Highly reliable
- Wide operation temperature range
- · Gain compensation over temperature
- RS232/RS485 and Ethernet M&C option
- · Built-in redundancy feature

Applications

- Emergency link restoration
- Hub and VSAT Terminals
- Video conferencing
- Broadcast



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20W/40W Ku-Band Block Up Converter

Technical Specifications

Frequency Range

Input Frequency		950-1700MHz (Extended) 950-1450MHz (Standard) 950- 2000MHz (Super Extended)
Output Frequency		13.75-14.50GHz (Extended)
		14.0-14.5GHz (Standard) 13.75-14.8GHz (Super Extended)
LO Frequency		12800MHz (Extended)
		13050MHz (Standard)
		Switchable Lo for Super Extended
Rated Output Power at P1dB		46dBm
Small Signal Gain		70dB Min
Gain Flatness		±2.5dB
Gain Stability Over Temperature		±2dB
Spurious @Rated		-55dBc (Inband spurious)
Phase Noise		
@100Hz	Offset	60dBc/Hz
@ 1KHz	Offset	73dBc/Hz
@ 10KH:	z Offset	83dBc/Hz
@ 100Kł	Hz Offset	93dBc/Hz
Inter Modulation		-27dBc @ Relative to combine power of two carriers at 3dB total power backoff

Environmental

-40°C to +55°C **Operating Temperature** Humidity (Non-condensing) Up to 100% Ext

Mechanical Specifications

Dimension	415mm x 230mm x 220mm
Weight	16Kg

Finish

Temasek Green / Nato Green

Compliance Standard

Safety EMI/EMC

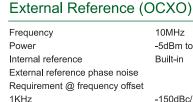
ERM MIL STD810F IEC 60950 ETSI EN 300 673 FCC Part 15 Class B MIL STD 461E ETSI EN 301489 -1 Vibration (Operational) Method 514.5, 5-500Hz

lgilis

Shock (Operational)

X-axis:1.97 GRMS Y-axis:2.24 GRMS Z-axis:3.29 GRMS MIL STD 810F Method 516.6 40g 11ms, Terminal Peak Saw tooth Pulse, X, Y, Z axis

Note: All specifications are subject to change without notice. Rev. 300112



Input and Output VSWR

10MHz -5dBm to +5dBm Built-in

from Rated Output power

-150dBc/Hz -155dBc/Hz -160dBc/Hz

1.25:1 max

Power Supply

AC Input voltage 207-253VAC **Power Consumption** 480W (typical) Interface Type KPTO2E12-3P

I/O Interface

Input Output

10KHz

100KHz

50Ohms N-type Female WR 75G

Monitor and Control

Interface	F
SSPA Output Power Monitoring	
System Alarm	`
SSPA On/Off	`
Attenuation Control	
Built-in redundancy	

RS232/458 and Ethernet Yes Yes Yes 20dB, 1dB step Yes

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